**Mykola** **Avramuk**

**Personal** **information**

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### Summary

I am a DevOps Engineer with **8 years** of experience in system administration, development, and cloud computing. Strong experience in the **streaming domain**.

**Education**

National Technical University of Ukraine “Kyiv Polytechnic Institute”

**Master's degree**, Intellectual technologies of microsystem radio-electronic equipment

Sep 2017 - Sep 2018

National Technical University of Ukraine “Kyiv Polytechnic Institute”

**Bachelor's degree**, Telecommunications and radio engineering

Sep 2013 - Aug 2017

**Expertise**

* **Cloud**: AWS
* **Linux**: Ubuntu Server, Amazon Linux 2
* **CI/CD**: CodeBuild, CodePipeline
* **IaC**: Terraform, Cloudformation
* **Containerization**: Docker, Kubernetes
* **Scripting**: Bash, Go
* **Configuration**: Ansible
* **Monitoring**: Grafana, Prometheus, CloudWatch
* **Testing**: Postman, Playwright
* MPEG Video, SRT, RTMP, Zixi, HLS, WebRTC, NDI, FFMPEG
* vMix, OBS, LiveU, AWS Elemental Live

**Experience**

**Team in UA**

**QA Engineer | VVCR Project**

**Jul 2020 – Present**

Responsibility: Complete the full QA process from scratch for the cloud-based virtual video control room system (VVCR). Managing SDLC in a team of 4 people. Reduces AWS costs by 20%.  
Technology: Scrum, Live Video Streaming, Postman, Playwright, AWS, Bash

**DevOps / QA | Mixa.live Project  
Mar 2022 – Present**

QA: Full QA process of SDLC for the cloud video switcher. Log analysis and debug.  
DevOps: Fully infra migration to another AWS account with Terraform and maintaining  
Technology: Live Video Streaming, Linux, Web, SRT, RTMP, Zixi, Terraform, Lambda

**DevOps | SLGFX Project**

**Oct 2023 – Feb 2024**

Responsibility: IaC for serverless service for generating Ad video graphics and insertion into HLS chunks. CI/CD with CodeBuild, CodePipeline. Testing and maintaining project.

Technology: CloudFormation, Lambda, ECS, Fargate, Docker, Bash, Python, FFmpeg, HLS

**QA Engineer | RIVET Project  
Jul 2020 – Mar 2022**  
Responsibility: Full QA process from scratch of Broadcast Tools (Windows, macOS, iOS, Android) and Platform (web) for Remote Streaming via SRT Protocol.  
Technology: Test Planning, System Testing, Regression Testing, Live Video Streaming, API Testing, Manual Testing, Test Automation

**1+1 MEDIA**

**Video Streaming Engineer | Shift time**

**Aug 2018 - Jul 2020**

Responsibility: Live video streaming, Installation, and support of devices and applications for broadcasts

Technology: AWS Elemental Live, LiveU Central, vMix, FFmpeg, RTMP, HLS, UDP

**Ukraine TV channel**

**Broadcasting Automation Engineer | | Shift time  
Mar 2020 - Jun 2021**

Responsibility: Servers Administering for TV channel Video Content Delivery pipeline (50+ servers)

Technology: Windows Server, Linux, MacOS, Avid Technology Products

**IT Support Engineer | Shift time**

**Feb 2018 - May 2020**

Responsibility: Technical Support, Setup, and Maintenance of new servers and workstations. Typical media production engineering tasks - Layer 2 and Layer 3 IP networking and standards, IPv4 addressing, multicast routing, NTP, SNMP, and IGMP/PIM

Technology: Technical Support, Avid Technology Products, Windows, Linux, macOS, Active Directory.

Achievements: Initiated and implemented monitoring of client machines via Zabbix, Implemented remote technical support for client machines via VNC.

**Broadcast Specialist | Shift time  
Sep 2016 - Feb 2018**

Responsibility: QC of media signals for noise, artifacts, quantization errors, aliasing, audio/video sync, etc.  
Technology: Oasys Air System, Avid Technology Products, SDI, Windows Server

**Volunteer**

**DevOps Engineer | Cyber Regiment  
Sep 2022** **– Present**

Responsibility: IaC for NEST.JS application with GitlabCI. Pentest and OSINT tasks.

Technology: Nest, Typescript, Bash, Gitlab CI, Kali Linux

**QA Engineer | Podiya  
Nov 2022 – Sep 2023**

I have implemented the testing processes for mobile iOS/Android applications to help Ukraine refugees apply for events worldwide.

Automating API tests with Postman and GitHub Actions